

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2004/000583

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 H01Q 3/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC H01Q 3/08, 1/18, 3/02, 3/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
KR, JP, US : IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
KIPO Net, PAJ, FPD, USPAT, Delphion

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	JP 7-050514 (SANWASEIKI CO LTD) 21 Feb 1995 See th whole document and Fig 1, 4See th whole document and Fig 1, 4, 8-11	1 2-10
A	US 4,920,350 (Comsat Telesystems Inc.) 24 Apr 1990 See the abstract and Fig 6	1-6
A	JP 6-104780 (YAGIANTENNA CO LTD) 15 Apr 1994 See th whole document and Fig 1	1-6

Further documents are listed in the continuation of Box C.

See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search
20 JULY 2004 (20.07.2004)

Date of mailing of the international search report
21 JULY 2004 (21.07.2004)

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